

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: March 1, 2001, 15:47:17 ; Search time 210.42 Seconds  
(without alignments)  
10.725 Million cell updates/sec

Title: US-09-331-631a-5\_COPY\_145\_210

Perfect score: 375  
Sequence: 1 KRDPQREYEDCRHCEQOE.....PQGGSGRYEGEGEKSDNP 66

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 268485 segs, 34193795 residues

Total number of hits satisfying chosen parameters: 268485

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

A\_Geneseq\_36.\*  
1: /SIDSI/gcgdata/geneseq/geneseq/AA1980.DAT.\*  
2: /SIDSI/gcgdata/geneseq/geneseq/AA1981.DAT.\*  
3: /SIDSI/gcgdata/geneseq/geneseq/AA1982.DAT.\*  
4: /SIDSI/gcgdata/geneseq/geneseq/AA1983.DAT.\*  
5: /SIDSI/gcgdata/geneseq/geneseq/AA1984.DAT.\*  
6: /SIDSI/gcgdata/geneseq/geneseq/AA1985.DAT.\*  
7: /SIDSI/gcgdata/geneseq/geneseq/AA1986.DAT.\*  
8: /SIDSI/gcgdata/geneseq/geneseq/AA1987.DAT.\*  
9: /SIDSI/gcgdata/geneseq/geneseq/AA1988.DAT.\*  
10: /SIDSI/gcgdata/geneseq/geneseq/AA1989.DAT.\*  
11: /SIDSI/gcgdata/geneseq/geneseq/AA1990.DAT.\*  
12: /SIDSI/gcgdata/geneseq/geneseq/AA1991.DAT.\*  
13: /SIDSI/gcgdata/geneseq/geneseq/AA1992.DAT.\*  
14: /SIDSI/gcgdata/geneseq/geneseq/AA1993.DAT.\*  
15: /SIDSI/gcgdata/geneseq/geneseq/AA1994.DAT.\*  
16: /SIDSI/gcgdata/geneseq/geneseq/AA1995.DAT.\*  
17: /SIDSI/gcgdata/geneseq/geneseq/AA1996.DAT.\*  
18: /SIDSI/gcgdata/geneseq/geneseq/AA1997.DAT.\*  
19: /SIDSI/gcgdata/geneseq/geneseq/AA1998.DAT.\*  
20: /SIDSI/gcgdata/geneseq/geneseq/AA1999.DAT.\*  
21: /SIDSI/gcgdata/geneseq/geneseq/AA2000.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	375	100.0	625	19	Macadamia integrifolia
2	353	94.1	666	19	Macadamia integrifolia
3	339	90.4	666	19	Macadamia integrifolia
4	129	34.4	590	19	Gossypium hirsutum
5	116.5	31.1	525	19	Theobroma cacao an
6	116.5	31.1	566	13	Sequence encoded b
7	95	25.3	637	19	Hordeum vulgare an
8	78.5	20.9	919	10	Human androgen rec
9	73.5	19.6	669	19	Mouse liver cancer
10	71.5	19.1	1898	20	A human trichophyal
11	71	18.9	919	10	Human androgen rec
12	71	18.9	919	18	Androgen receptor.

13	71	18.9	919	21	V78914	Human androgen rec
14	69.5	18.5	154	20	V33504	Human unliganded a
15	69.5	18.5	918	12	R12223	Human androgen rec
16	69.5	18.5	918	20	V33491	Human androgen rec
17	68.5	18.3	1162	21	V58500	HHV8 ORF 73 protei
18	68	18.1	326	20	V20109	B. burgdorferi ant
19	68	18.1	347	20	V20108	B. burgdorferi ant
20	67.5	18.0	409	20	W90342	G. max truncated S
21	67.5	18.0	489	20	W90341	Pig p105 zona pell
22	67	17.9	2476	20	W67338	Partial Human Natu
23	65.5	17.5	1023	12	R13319	Human metastasis-a
24	65.5	17.2	593	19	W31867	Zea mays antimicro
25	64.5	17.2	593	19	W62835	Human ZC3 protei
26	63.5	16.9	1326	20	V55933	Epitope tagged TBP
27	63	16.8	371	20	W73369	Mouse Trp-3 Mus
28	63	16.8	1251	16	R79475	Human 70K UI snRNP
29	62.5	16.7	436	17	W03662	70K UI snRNA bindi
30	62.5	16.7	436	20	V22342	SAP-AlaMet-VEGF165
31	62.5	16.7	594	17	W00591	SAP-Glyser-VEGF165
32	62.5	16.7	595	17	W00595	70K autoantigen. P
33	62.5	16.7	614	16	R82630	Human PRO1604 (UNQ
34	62.5	16.7	671	21	V99426	Peptide seq ID No:
35	61	16.3	71	20	V09181	GST-HD fusion prot
36	61	16.3	86	20	W95073	Rice storage prote
37	61	16.3	86	20	W95078	Mouse brain CNG-1
38	61	16.3	499	9	P82755	Human mitocin amn
39	61	16.3	910	20	V22191	Kinetochore protei
40	60.5	16.1	2482	16	R72826	Osteoinductive ret
41	60.5	16.1	2482	19	W23996	Amino acid sequenc
42	60.5	16.1	3248	17	R97975	Mouse STR20-relate
43	60	16.0	537	16	R75188	
44	60	16.0	1135	21	V68784	
45	60	16.0	1233	20	V55954	

#### ALIGNMENTS

RESULT 1	
ID	W62830 standard; Protein: 625 AA.
XX	
AC	W62830;
XX	
DT	27-OCT-1998 (first entry)
XX	
DE	Macadamia integrifolia antimicrobial protein.
XX	
KW	antimicrobial protein; infestation; control.
XX	
OS	Macadamia integrifolia.
XX	
FN	Key
FT	Peptide
FT	Location/Qualifiers
FT	1..28
FT	/note= "signal peptide"
FT	29..666
FT	Protein
FT	/note= "mature protein"
XX	
PN	W09827805-A1.
XX	
PD	02-JUL-1998.
XX	
PF	22-DEC-1997; 97WO-AU00874.
XX	
PR	20-DEC-1996; 96AU-0004275.
XX	
PA	(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX	
PI	Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX	
DR	WPI: 1998-377279/32.
XX	
DR	N-PSDB; VA2316.
XX	

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
 PT useful for controlling microbial infestations of plants or mammals  
 XX  
 PS Claim 1: Page 43-45; 96pp; English.  
 XX  
 CC The sequence is that of an antimicrobial protein which can  
 CC be used to control microbial infestations in plants and mammalian  
 CC animals.  
 XX  
 SQ Sequence 625 AA;

Query Match 100.0%; Score 375; DB 19; Length 625;  
 Best Local Similarity 100.0%; Pred. No. 9.1e-36;  
 Matches 66; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KRDPQOREYEDCRHCEOEPRLOYOCORCOEOROHGRGGLNMPORGSGRYEEGE 60  
 DB 145 krpdpqreyedcrrhceqeprrlyqyqqrcreqqrghrgldlmprrgs9ryeege 204  
 OY 61 KQSDNP 66  
 DB 205 kgsdnp 210

RESULT 2  
 W62829  
 ID W62829 standard; Protein: 666 AA.

AC W62829;

DT 27-OCT-1998 (first entry)

DE Macadamia integrifolia antimicrobial protein.

XX antimicrobial protein; infestation; control.

OS Macadamia integrifolia.

XX Key Location/Qualifiers

FT Peptide 1..28 /note="signal peptide"

FT Protein 29..666 /note="mature protein"

PN W09827805-A1.

PD 02-JUL-1998.

PF 22-DEC-1997; 97WO-AU00874.

PR 20-DEC-1996; 96AU-0004275.

PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;

DR MPI: 1998-377279/32.

DR N-PSDB; V42311.

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
 PT useful for controlling microbial infestations of plants or mammals

PS Claim 1: Page 39-41; 96pp; English.

XX The sequence is that of an antimicrobial protein which can  
 CC be used to control microbial infestations in plants and mammalian  
 CC animals.  
 XX  
 SQ Sequence 666 AA;

Query Match 94.1%; Score 353; DB 19; Length 666;

Best Local Similarity 93.9%; Pred. No. 3.5e-33;  
 Matches 62; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 1 KRDPQOREYEDCRHCEOEPRLOYOCORCOEOROHGRGGLNMPORGSGRYEEGE 60  
 DB 186 krpdpqreyedcrrhceqeprrlyqyqqrcreqqrghrgldlmprrgs9ryeege 245  
 OY 61 KQSDNP 66  
 DB 246 kgsdnp 251

RESULT 3  
 W62828  
 ID W62828 standard; Protein: 666 AA.

AC W62828;

DT 27-OCT-1998 (first entry)

DE Macadamia integrifolia antimicrobial protein.

XX antimicrobial protein; infestation; control.

OS Macadamia integrifolia.

XX Key Location/Qualifiers

FT Peptide 1..28 /note="signal peptide"

FT Protein 29..666 /note="mature protein"

PN W09827805-A1.

PD 02-JUL-1998.

PF 22-DEC-1997; 97WO-AU00874.

PR 20-DEC-1996; 96AU-0004275.

PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;

DR MPI: 1998-377279/32.

DR N-PSDB; V42310.

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
 PT useful for controlling microbial infestations of plants or mammals

PS Claim 1: Page 34-36; 96pp; English.

XX The sequence is that of an antimicrobial protein which can  
 CC be used to control microbial infestations in plants and mammalian  
 CC animals.  
 XX  
 SQ Sequence 666 AA;

Query Match 90.4%; Score 339; DB 19; Length 666;  
 Best Local Similarity 89.4%; Pred. No. 1.5e-31;  
 Matches 59; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

OY 1 KRDPQOREYEDCRHCEOEPRLOYOCORCOEOROHGRGGLNMPORGSGRYEEGE 60  
 DB 186 krpdpqreyedcrrhceqeprrlyqyqqrcreqqrghrgldlmprrgs9ryeege 245  
 OY 61 KQSDNP 66  
 DB 246 eqsdnp 251

RESULT 4

W62832  
 ID W62832 standard; Protein; 590 AA.  
 AC W62832;  
 DT 27-OCT-1998 (first entry)  
 DE Gossypium hirsutum antimicrobial protein.  
 KW antimicrobial protein; infestation; control.  
 OS Gossypium hirsutum.  
 PN W09827805-A1.  
 PX 02-JUL-1998.  
 PD 22-DEC-1997; 97MO-AU00874.  
 PF 20-DEC-1996; 96AU-0004275.  
 PR (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
 PA Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;  
 PI WPL; 1998-377279/32.  
 DR Novel anti-microbial protein from e.g. Macadamia integrifolia -  
 DX useful for controlling microbial infestations of plants or mammals  
 PS Claim 1; Page 49-51; 96pp; English.  
 CC The sequence is that of an antimicrobial protein which can  
 CC be used to control microbial infestations in plants and mammalian  
 CC animals.  
 SE Sequence 590 AA;

[illegible]

XX (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
PA  
XX  
XX  
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP,  
XX  
DR WPI; 1998-377279/32.  
XX  
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
XX useful for controlling microbial infestations of plants or mammals  
XX  
PS Claim 1; Page 47-49; 96pp; English.  
XX  
XX The sequence is that of an antimicrobial protein which can  
CC be used to control microbial infestations in plants and mammalian  
CC animals.  
XX  
SQ Sequence 525 AA;

	Query Match	31.1%	Score 116.5;	DB 19;	Length 525;
	Best Local Similarity	39.7%;	Pred. No. 7.3e-06;		
	Matches	25;	Conservative	12; Mismatches	23; Indels
					Gaps 3;
QY		6	OREVEDCRRHCEOE-	-PRLOYCCORROEOQRORHGCDLMPORGSGRYEEGEFKS	63
DG		82	qrgyggcggrcqqgqgqrqqgcqikcwkykqer-gehenymnhknkseeeeqqr		140
OY		64	DNP	66	
DG		141	nnp	143	

Db 141. nnp 143

RESULT	6
R20181	
ID	P20181 standard; protein: 566 aa

DT 16-APR-1992 (first entry)

DE Sequence encoded by 67 kD T. cacao protein cDNA.

Cocoa; flavour; vicilin; seed storage protein.

05 Theobroma cacao.

PN WO9119801-A

PD 26-DEC-1991

PF 07-JUN-1991; 91WO-GB00914.

PR 11-JUN-1990; 90GB-0013016.

PA (MRSC ) MARS UK LTD.

PI Spencer ME, Hodge R, Deakin EA, Ashton S;  
vv

DR WPI; 1992-024418/03.  
DR N-DEPT; 030377

XX  
XX  
XX

PT beans and produced

XX  
XX  
C] 34 E 4  
E: 2 C  
C O C  
E 27 : 2  
E 27 : 2

The inventors claim a 67 kD and 31 kD T. cacao protein, and fragments, and encoding DNAs. The 47 kD and 31 kD proteins are derived from the 67 kD precursor. T. cacao protein cDNA was detected in a cDNA library prepared from immature cocoa beans RNA using a probe based on the AA sequence of a CNR peptide common to the 47 kD and 31 kD polypeptides. Homology searches revealed close



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KW Mouse; human; liver cancer-originated culture cell growth factor;
KM hHGF; HET-A; HET-B.
XX Mus sp.
OS JP09313185-A.
XX PD 09-DEC-1997.
XX PF 27-MAY-1996; 96JP-0131788.
XX PR 27-MAY-1996; 96JP-0131788.
PA (KISHU) KISHIMOTO C.
DR (SEKI) SEKISUI CHEM IND CO LTD.
XX WIPI; 1998-080076/08.
XX DR N-PSDB; V01731.
XX PT DNA segment encoding protein homologous to human liver
PT cancer-originated culture cell - which may be modified to produce
PT polypeptide of at least 5 continuous amino acids, useful in
PT producing, e.g. protein HET-A
XX PS Claim 10; Page 13-14; 18pp; Japanese.
CC The present sequence represents a protein which has local homology to a
CC human liver cancer-originated culture cell isolated from a mouse
CC testicle cDNA library. The sequence may (1) be modified to produce a
CC polypeptide comprising at least 5 continuous amino acids; (2) a
CC polypeptide protein similar to protein of (1), but comprises no protein
CC combined naturally and also has 2 amino acid sequences (as given in
CC the specification) which may be modified to produce a sequence of at
CC least 5 amino acids; (3) a recombinant DNA molecule comprising a vector
CC and the DNA segment of (1); (4) a cell comprising (3); (5) producing a
CC polypeptide comprising amino acids corresponding to a protein of (1),
CC in which a cell comprising (3) is cultured under a conditions enabling
CC the expression of (1) to produce the polypeptide which is isolated.
CC The above method may be used to produce proteins HET-A and HET-B.
SQ Sequence 669 AA;
Query Match 19.6%, Score 73.5; DB 19; Length 669;
Best Local Similarity 31.8%; Pred.No. 0.92;
Matches 21; Conservative 14; Mismatches 20; Indels 11; Gaps 3;
QY 1 KRDPQGRREDCRCRCEQDEPRLOIQCCORCKOEOROGRGDDLMPORGSGGREEGGE 60
   :||::|: || |::| : :|:|::|: | :||| |||
Db 322 rrderrrellearrtregeeeellrlreger-eekerkera-----ergs---sgce 370
QY 61 KSDNP 66
   : :|
Db 371 ledeep 376
RESULT 10
ID Y30795
AC Y30795;
DT 25-NOV-1999 (first entry)
DE A human trichohyalin (TRHY) protein.
KW Human; trichohyalin; TRHY; protein; tissue structure; wound healing;
KM terminally differentiating epidermal tissue; proteinaceous gel;
KM breast implant.
XX Homo sapiens.
XX OS
XX UN US5958752-A.
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XX      28-SEP-1999.
PD
XX
PF      14-FEB-1997;    970S-0800644.
PR      30-APR-1993;    93US-0056200.
XX
PA      (USSH ) US DEPT HEALTH & HUMAN SERVICES.
XX
PI      Kim I, Chung S, Park S, Steinert PM, Lee S;
XX
DR      WPI: 1999-561041/47.
XX      N-PSDB: Z22301.
XX
PT      Human trichohyalin useful for forming a proteinaceous gel that promotes
PT      wound healing -
XX
PS      Disclosure: Fig 3A-W; 126pp; English.
XX
CC      The present sequence represents a human trichohyalin (TRHY) protein.
CC      The protein is found in terminally differentiating epidermal tissue,
CC      and is involved in forming the structural architecture of such
CC      tissue. The trichohyalin protein is useful for forming a
CC      proteinaceous gel which may then be used for healing wounds, or in
CC      breast implants.
XX
SQ      Sequence   1898 AA;

Query Match          19.1%; Score 71.5; DB 20; Length 1898;
Best Local Similarity 27.8%; Pred. No. 4.7;
Matches 20; Conservative 17; Mismatches 24; Indels 11; Gaps 3;

QY      1 KRDPQREVEDCRHCEOEPRLOYOCO-----RCQEQQROHGGRGDLMPORGGS 52
       :|::|| :: |::|| |::| |||||::|::|
Db      1112 reepkrrtgrgeirgcreeeelqgeeeqllyreerckrrrtglergyreeeelqrqkr--k 1169
       ||::|::||
       Db      1170 qryid-edqrsd 1180

RESULT 11
P93109 P93109 standard; protein; 919 AA.
XX
AC      P93109;
XX
DT      19-MAR-1990 (first entry)
XX
DE      Human androgen receptor.
XX
KW      Human androgen receptor; ployclonal antibody; cancer.
XX
OS      Homo sapiens.
XX
PN      MO8909791-A.
XX
PD      19-OCT-1989.
XX
PF      13-APR-1989;    89WO-USO1548.
XX
PR      14-APR-1988;    88US-0182646.
XX
PA      (UYNC-) UNIVERSITY OF NORTH CAROLINA.
XX
PI      French FS, Wilson EM, Joseph DR, Lubahn DB;
XX
DR      WPI: 1989-324206/44.
XX      N-PSDB: N91772.
XX
PT      DNA encoding androgen receptor protein - useful for transforming
        eukaryotic hosts for protein expression and subsequent antibody produ.

```

XX Disclosure: Fig. 4; 41pp: English.  
PS  
XX Androgen receptor protein (AR) is used to produce mono- or poly-clonal  
CC antibodies. These are used for the detection and quantification of AR in  
CC the presence of endogenous androgen, as androgen will not interfere with  
CC binding. They may be used in assays to determine and quantify cellular  
CC distribution of AR in tumour tissue, and are esp. useful for evaluating  
CC prostate cancers to determine responsiveness to androgen withdrawal  
CC therapy.  
XX  
SO Sequence 919 AA:

Query Match 18.9%; Score 71; DB 10; Length 919;  
Best Local Similarity 29.0%; Pred. No. 2.5;  
Matches 18; Conservative 14; Mismatches 28; Indels 2; Gaps 1;

OY 5 QQREYEDCRHRCQDEPRLOYCCQRCQEQORHGRGGLMNPQRCGSGHYEGGEKQSD 64  
11::: :: :11: :1: :1:1:1 :1:1:1 11:1  
Db 58 qqqqqqqqqqqqqqqqqqqqqsprr--qqqqqqgddspqahrrpttylviideeqps 115  
OY 65 NP 66  
Db 116 qp 117

RESULT 12  
W14783  
ID W14783 standard; Protein: 919 AA.  
XX  
AC W14783;  
XX  
DT 22-JUN-1997 (first entry)  
XX  
DE Androgen receptor.  
XX  
KW Androgen receptor; acidic fibroblast growth factor; ARGF;  
KM antisenase; benign prostatic hyperplasia; prostate cancer; therapy.  
XX  
OS Homo sapiens.  
XX  
PN W09711170-A1.  
XX  
PD 27-MAR-1997.  
XX  
XX 20-SEP-1996; 96WO-US15081.  
PF  
XX 20-SEP-1995; 95US-0004018.  
PR  
XX (W0RC-) WORCESTER FOUND BIOMEDICAL RES.  
PA  
XX Zamecnik PA;  
PI  
XX WPI: 1997-202879/18.  
DR N-PSDB: T63407.  
XX  
XX Oligonucleotide(s) antisense to human androgen receptor and acidic  
PT FGF genes - used to inhibit gene expression, for the treatment of  
PT benign prostatic hyperplasia  
XX  
PS Disclosure: Page 22-28; 51pp: English.  
XX  
CC Human androgen receptor (W14783) binds testosterone and, acting  
CC at the transcriptional level, regulates the growth of normal  
CC prostatic cells. Antisense oligonucleotides (see also T63200,  
CC T63404-05) based on an androgen receptor cDNA clone (see also  
CC T63407) can be used to prevent androgen receptor gene expression,  
CC thereby inhibiting the growth or survival of prostatic cells for  
CC the treatment of benign prostatic hyperplasia and prostate cancer.  
XX  
SO Sequence 919 AA:

Query Match 18.9%; Score 71; DB 18; Length 919;  
Best Local Similarity 29.0%; Pred. No. 2.5;  
Matches 18; Conservative 14; Mismatches 28; Indels 2; Gaps 1;

OY 5 QQREYEDCRHRCQDEPRLOYCCQRCQEQORHGRGGLMNPQRCGSGHYEGGEKQSD 64  
11::: :: :11: :1: :1:1:1 :1:1:1 11:1  
Db 58 qqqqqqqqqqqqqqqqqqqqqsprr--qqqqqqgddspqahrrpttylviideeqps 115  
OY 65 NP 66  
Db 116 qp 117

RESULT 13  
Y78914  
ID Y78914 standard; Protein: 919 AA.  
XX  
AC Y78914;  
XX  
DT 23-MAY-2000 (first entry)  
XX  
DE Human androgen receptor (AR) amino acid sequence.  
XX  
XX Androgen receptor; AR; androgen-independent activation; inhibitor;  
KW cancer; benign prostatic hyperplasia; hirsutism; androgenic alopecia;  
KM acne; breast cancer; Kennedy disease; prostate cancer.  
XX  
OS Homo sapiens.  
XX  
PN W0200001813-A2.  
XX  
PD 13-JAN-2000.  
XX  
PF 30-JUN-1999; 99WO-CA00604.  
XX  
XX 30-JUN-1998; 98US-0091871.  
PR  
XX (UYBR-) UNIV BRITISH COLUMBIA.  
PA  
XX  
PI Sader MD, Bruchovsky N, Gout PW, Snoek R, Mawji NR:  
XX  
XX WPI: 2000-182113/16.  
DR  
XX  
XX Novel non-androgen ligand binding peptides for inhibiting  
PT androgen-independent activation of androgen receptor, used for  
PT screening compounds and for treatment of androgen-mediated diseases  
PT such as prostate cancer  
XX  
PS Disclosure: Page 7; 32pp: English.  
XX  
XX This sequence represents the human androgen receptor (AR) amino acid  
CC sequence. The invention relates to a fragment of the AR corresponding to  
CC amino acids 234-391 (see Y78913). The fragment mediates  
CC androgen-independent activation of the AR. The androgen receptor acts as  
CC a transcription factor, regulating the expression of certain  
CC androgen-responsive genes. Interaction of the AR with the protein kinase  
CC A signal transduction pathway involves interaction with the androgen  
CC independent region. The AR fragment and peptides derived from it can be  
CC used as agents for inhibiting androgen independent activation of the  
CC androgen receptor, as activation domains, and as a tool for screening for  
CC compounds which affect androgen-independent activation of the AR. The  
CC peptides, when used in combination with androgen deprivation, effectively  
CC limit androgen mediated disease progression. These diseases include  
CC cancer, benign prostatic hyperplasia, hirsutism, androgenic alopecia,  
CC acne, breast cancer, Kennedy disease, and especially prostate cancer. The  
CC peptides and nucleic acids encoding them, are especially used for the  
CC treatment of androgen-mediated diseases, especially prostate tumours in  
CC patients deprived of androgen.  
XX  
SO Sequence 919 AA:

```

Query Match      18.9%; Score 71; DB 21; Length 919;
Best Local Similarity 29.0%; Pred. No. 2.5;
Matches 18; Conservative 14; Mismatches 28; Indels 2; Gaps 1;

OY 5 QOREPRLQYQCRRCOE-----QORHGRCGDLMPGRGSGRYEGEGERKOSDNP 64
   |||: : : : |||: : : : |||: : : : |||: : : : |||: : : : |||: : : :
Db 58 qqqqqqqqqqqqqqqqqqetstpr--qqqqqqggedspqahrrptgylvideeqps 115

OY 65 NP 66
   |
Db 116 qp 117

RESULT 14
Y33504 Y33504 standard; Protein; 154 AA.
XX
AC Y33504;
XX
DT 19-JAN-2000 (first entry)
XX
DE Human unliganded androgen receptor protein.
XX
KM Proapoptotic; dependence domain; p75NTR; androgen receptor; DCC;
KM huntingtin polypeptide; Machado-Joseph disease; SCAL; SCAL2; SCAL6;
KM atrophin-1; cell death; apoptosis; Huntington's disease; head trauma;
KM Alzheimer's disease; Kennedy's disease; spinocerebellar ataxia; stroke;
KM dentatorubropallidolysian atrophy; cell proliferation; cell survival;
KM neoplastic; malignant; autoimmune; fibrotic.
XX
OS Homo sapiens.
XX
PN MO945944-A1.
XX
PD 16-SEP-1999.
XX
PF 11-MAR-1999; 99MO-US05250.
XX
PR 12-MAR-1998; 98US-0041886.
XX
PA (BURN-) BURHAM INST.
XX
PI Bredesen DE, Rabizadeh S;
XX
DR WPI; 1999-561617/47.
XX
PT New proapoptotic dependence peptides, used to develop products for
PT treating, e.g. Alzheimer's disease -
XX
PS Disclosure; Page 178-179; 1999p; English.
XX
CC This invention describes novel pure proapoptotic dependence peptides
CC which comprise a sequence of an active dependence domain selected from
CC dependence polypeptides consisting of p75NTR, androgen receptor, DCC,
CC huntingtin polypeptide, Machado-Joseph disease gene product, SCAL, SCAL2,
CC SCAL6 and atrophin-1 polypeptide. The proapoptotic peptides are capable
CC of inducing cell death and can be used to develop products to mediate or
CC inhibit apoptosis. The methods can be used for reducing the severity of
CC a proapoptotic dependence domain mediated pathological conditions e.g.
CC Huntington's disease, Alzheimer's disease, Kennedy's disease,
CC Spinocerebellar ataxias, dentatorubropallidolysian atrophy,
CC Machado-Joseph disease, stroke or head trauma. They can also be used for
CC reducing the severity of a pathological condition mediated by upregulated
CC cell proliferation or cell survival e.g. neoplastic, malignant,
CC autoimmune or fibrotic conditions. This sequence represents a human
CC unliganded androgen receptor described in the method of the invention.
XX
SQ Sequence 154 AA:

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Best Local Similarity 34.5%; Pred. No. 0.57;
Matches 19; Conservative 9; Mismatches 22; Indels 5; Gaps 1;

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OY 17 EQGEPRLQYQCRRCOE-----QORHGRCGDLMPGRGSGRYEGEGERKOSDNP 66
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Db 59 qqqqqqqqqqqqqqqqqqetstprqqqqqqggedspqahrrptgylvideeqpsqp 113

RESULT 15
R12223 R12223 standard; Protein; 918 AA.
XX
AC R12223;
XX
DT 20-AUG-1991 (first entry)
XX
DE Human androgen receptor.
XX
KM hAR; DNA-binding protein; steroid hormone.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Domain 556..626
FT /label= "DNA-binding domain
FT /note= "cysteine-rich"
XX
PN MO9107423-A.
XX
PD 30-MAY-1991.
XX
PF 19-OCT-1990; 90MO-US06015.
XX
PR 17-NOV-1989; 89US-0438775.
XX
PA (ARCH-) ARCH DEV CORP.
XX
PI Liao S, Chang C;
XX
DR WPI; 1991-178048/24.
XX
DR N-PSDB; Q12001.
XX
PT Androgen receptor and TR2 DNA binding proteins - DNA sequences
PT and antibodies for detection and quantification methods
XX
PS Claim 25; Fig 3; 79pp; English.
XX
CC This sequence was deduced from a cDNA clone isolated by screening
CC commercially available human testis and prostate lambda gt11 cDNA
CC libraries. The sequence is very similar to that of rat AR and in
CC the DNA-binding domain it is identical to that of rat AR DNA-binding
CC domain. Homology comparisons with other known steroid receptors
CC indicate that hAR is more closely related to glucocorticoid,
CC mineralo-corticoid and progesterone receptors than to v-erbA or to
CC receptors for oestrogen, vitamin D and thyroid hormones.
XX
SQ Sequence 918 AA:

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Query Match      18.5%; Score 69.5; DB 12; Length 918;
Best Local Similarity 34.5%; Pred. No. 3.7;
Matches 19; Conservative 9; Mismatches 22; Indels 5; Gaps 1;

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Search completed: March 1, 2001, 15:47:18
Job time: 243 sec

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